Nema Note



NCDA&CS AGRONOMIC DIVISION

NEMATODE ASSAY SECTION

PHYSICAL ADDRESS

4300 REEDY CREEK ROAD

RALEIGH NC 27607-6465

MAILING ADDRESS 1040 MAIL SERVICE CENTER RALEIGH NC 27699-1040

Root-knot Nematodes on Tobacco

www.ncagr.com/agronomi/uyrnem.htm

Root-knot nematodes (*Meloidogyne incognita*, *M. arenaria* and *M. javanica*) can cause serious problems in tobacco. To minimize damage, implement the control practice(s) recommended by the note(s) specified on your nematode assay report. Notes 3–1 through 3–10 are presented here.

Root-knot Population

Note	Fall	Spring	Hazard	Comment	PHONE: 919-733-2655 FAX: 919-733-2837
3–1	0	0	None	Root-knot nematode populations are undetectable. A nematicide is not needed. However, a chemical	Dr. Weimin Ye Nematologist
				treatment may be required to control soil-borne diseases, such as black shank or Granville wilt.	Dr. Colleen Hudak-Wise Division Director
3–2	10–200	10–20	Very Low	Root-knot nematodes are not likely to cause economic damage at this level. Use a resistant variety to prevent populations from increasing —unless the nematodes ar variety. In that case, the usefulness Other soil-borne diseases may still resistance.	s of such varieties is limited.
3–3	201–1000	21–100	Low	Use a resistant variety or a nematicity However, if nematodes are already tobacco in this field, rely on a nemat	damaging root-knot resistant
3–4	1001–3000	101–300	Moderate	Use a resistant variety and a nematicide treatment with a rating of at least 3. However, if root-knot damage has already occurred on resistant tobacco in this field, use a nematicide with a rating of 1 or 2.	
3–5	3000+	300+	High	Use a resistant variety and a nematicide if nematodes are already damaging ruse of nematicides is the only viable	esistant varieties in this field,

Nema Note 3

Note	Comment		
3–6	The grower did not provide the name of the variety for the previous tobacco crop on the information sheet. If it was a resistant variety, it was ineffective. Use a nematicide with a rating of 1 or 2.		
3–7	Currently available tobacco varieties with resistance to root-knot nematodes will not be effective in controlling this nematode population. Use a nematicide with a rating of 1 or 2.		
3–8	<i>Tobacco Beds:</i> Use a soil fumigant regardless of the nematode population. It helps control weeds and soil-borne diseases.		
3–9	The grower did not provide the name of the variety for the previous tobacco crop on the information sheet. If it was a resistant variety, it was ineffective, and you should not rely on its resistance in this field. Resample this field prior to planting tobacco, and use a nematicide rated 1 or 2 if the assay indicates the presence of root-knot nematodes.		
3–10	In this case, root-knot nematode populations are relatively high on or following a root-knot resistant tobacco variety. Therefore, tobacco varieties with resistance to root-knot nematodes will be ineffective in this field. Sample this field again prior to planting tobacco, and use a nematicide rated 1 or 2 if the assay indicates the presence of root-knot nematodes. Other nematodes that attack tobacco include the lesion nematodes (<i>Pratylenchus</i> species) and tobacco cyst nematodes (<i>Globodera</i> species) in limited areas of the state.		

For more information, consult the latest edition of the bulletin *Tobacco Information* published annually by the North Carolina Cooperative Extension Service. The bulletin contains ratings for recommended nematicide treatments. It is available from county Cooperative Extension offices as well as online.

For Additional Assistance

- Call your NCDA&CS regional agronomist or the Agronomic Division office in Raleigh (919-733-2655).
- ➤ Visit the NCDA&CS Agronomic Division Web site at www.ncagr.com/agronomi/.
- Visit your county Cooperative Extension office.